

BILL OF QUANTITY

Name of Project

: 400kV Substation Extension at Bhiwadi.

Name of Work

: Civil Works of Yard

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
1	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	cum	11700.00		
2	Providing and laying of Plain Cement Concrete (1:4:8) including shuttering, as necessary.	cum	634.00		
3	Providing and laying of Plain Cement Concrete (1:2:4) including shuttering, as necessary.	cum	225.00		
4	Providing and laying of Reinforced Cement Concrete (1:1:5:3 nominal mix) including precast, shuttering, grouting of pockets & underpinning, etc., but excluding reinforcement.	cum	1875.00		
5	Steel reinforcement				
(a)	Including supply and bending, binding (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	MT	10.00		
(b)	Excluding supply but including bending, binding (i/c cost of binding wire), placing in position, etc., all labour & material, complete. (See Note No:3)	MT	98.00		
6	Stone filling (40 mm size) for reactor foundation	cum	56.00		
7	Miscellaneous structural steel including rails, embedments, edge protection angles, gratings etc. but excluding the reinforcement steel and steel for lattice and pipe structures.	MT	72.00		
8	Stone spreading in switchyard excluding PCC	sqm	28836.00		
9	Concrete road as per drawing except reinforcement & concrete				
	Road 3.75 m wide (switchyard road)	RM	270.00		
10	Supplying & laying hume pipe of grade (NP-3)				
	250mm dia	RM	70.00		
	300mm dia	RM	60.00		
	450mm dia	RM	15.00		
11	Supplying and erecting dewatering pumps				
	5 HP	Nos	1.00		
	0.5 HP	Nos	4.00		
12	Drains				
	a) Section A-A	RM	400.00		
	b) Section B-B	RM	400.00		
	c) Section C-C	RM	400.00		
	d) Section D-D	RM	100.00		

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	Construction of rail cum road as per drawing including all items such as excavation, compaction, rolling, watering, WBM etc but excluding concrete, reinforcement and structural steel.				
	a) Section having two rails	Sq. M	2230.00		
14	Dismantling of concrete road including disposal of dismantled material at suitable place.(Only area of concrete pavement shall be measured)	Sq. M	1150.00		
15	Dismantling of trapezoidal drains made of brick masonry with cement mortar 1:4 on both sides of road and PCC 1:3:6 at the bottom.	RM	610.00		
16	Dismantling of fencing including stacking of serviceable material at a suitable place and disposal of unserviceable material.	RM	330.00		
17	Fixing (all dia & length) foundation bolts in position with help of proper templates including nuts and washers all complete as per drawings & directions of Engr-in-Charge. (See Note No: 4)	MT	15.00		
18	Open Store	Sqm	1200.00		
19	Covered store cum office as per drawing Type "A": 20X10X4.5m (200sqm)	Lot	1		
	TOATAL AMOUNT(RS.)				
	Note:				
1	<i>The rates shall be deemed to be inclusive of cost against all activities covered in specification & drawings against that item.</i>				
2	<i>PGCIL drawings provided may not be totally exhaustive. Any minor details required as per site requirement or for the sake of system completion shall be issued by PGCIL during construction stage. The rates shall be deemed to be inclusive of such contingencies.</i>				
3	<i>Reinforcement steel shall be supplied by BHEL <u>free of cost</u> as per norms indicated in conditions of contract. The rate quoted against Item No: 5(b) above shall be deemed to be inclusive of cost against all activities required including transportation of material from nearest SAIL stockyard.</i>				
4	<i>Foundation bolts shall be supplied by BHEL <u>free of cost</u> at site. Fixing shall be paid under Item No: 17</i>				